

AD-A092 779

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
12830C LANCE, MISSILE NUMBER 2227, ROUND NUMBER 356-DST, 30 SEP--ETC(U)
SEP 80

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 12830C LANCE, Missile Number 2227, Round Number 356-DST, presented in tabular form.		

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INTRODUCTION

12830C LANCE, Mi site Number 2227, Round Number 356-DST,
 was launched from LC-33, White Sands Missile Range (WSMR), New Mexico,
 at 0917 MDT on 30 September 1980. The scheduled launch time was
0845 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), Wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from an anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPI, T-9 pilot observation at:

SITE AND ALTITUDE

LC-33

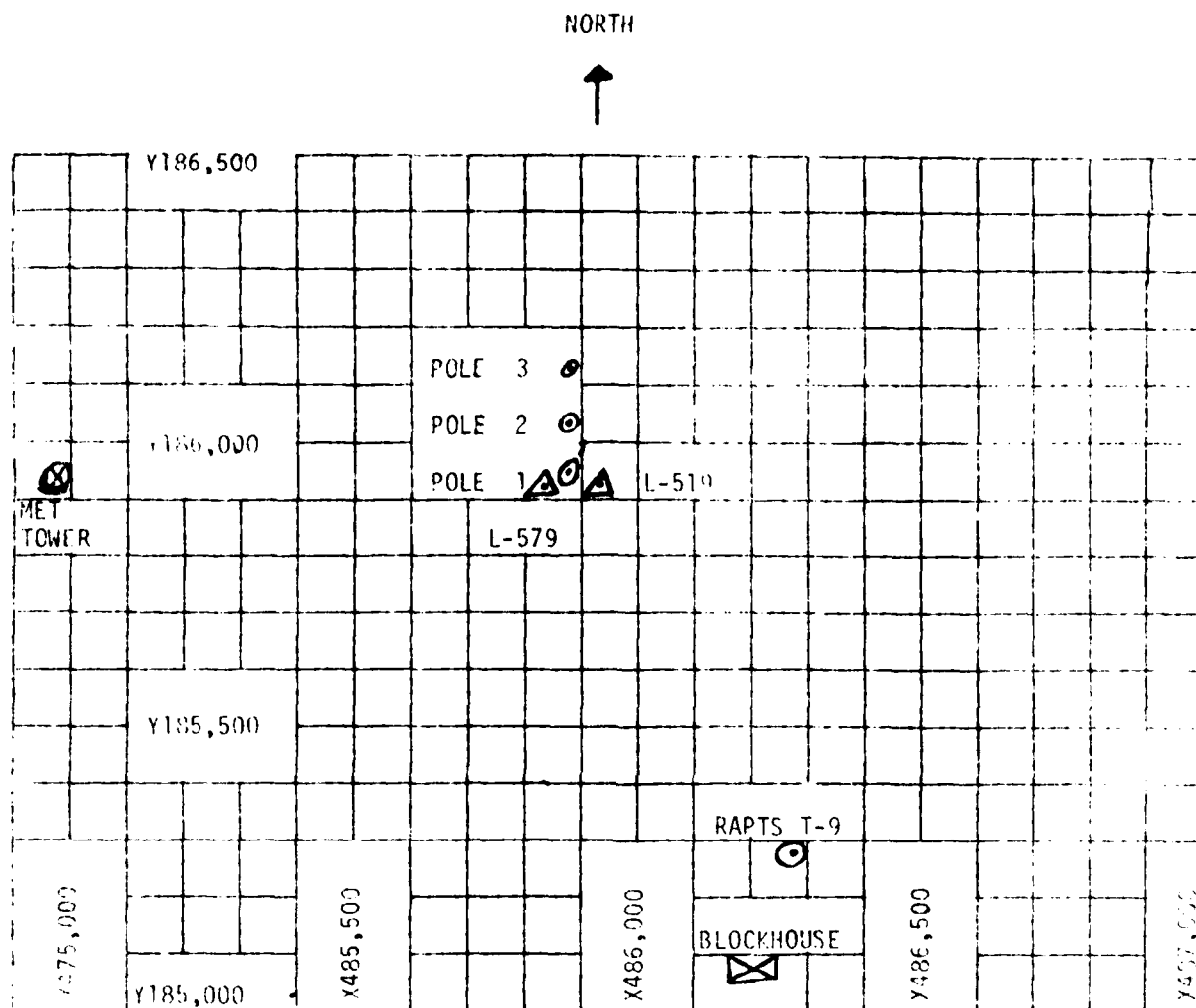
3000 METERS

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible (not less than 500-foot increments).

SITE AND TIME

HMN	0745 MDT
WSD	0815 MDT
JAL	0850 MDT

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1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft.
 - (b) Pole #2 - 53.0 ft.
 - (c) Pole #3 - 83.6 ft.
3. RAPT5 T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations taken at 0915 MDT,
30 September 1980, at WSD, 12830C LANCE,
Missile Number 2227, Round Number 356-DST.

ELEVATION	3990	FT/MSL
PRESSURE	844.9	MBS
TEMPERATURE	19.8	°C
RELATIVE HUMIDITY	65	%
DEW POINT	13.0	°C
DENSITY	1043	GM/M ³
WIND SPEED	05	KTS
WIND DIRECTION	020	DEGREES
CLOUD COVER	CLEAR	

FILE 2.

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
X485,374.29			X485,374.93			X485,877.29		
Y185,958.90			Y186,012.00			Y186,116.06		
H4018.74			H4033.57			H4063.92		
88.7 ft. AGL			53.0 ft. AGL			83.6 ft. AGL		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	009	03	-30	015	06	-30	MISSING	
-20	009	03	-20	018	05	-20	MISSING	
-10	009	03	-10	015	04	-10	MISSING	
0.0	009	03	0.0	013	03	0.0	MISSING	
+10	006	04	+10	015	06	+10	MISSING	

FILE 3.

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET			LEVEL #2, 62 FEET		
X484,982.64, Y185,057.73, H3983.00 (base)			X484,982.64, Y185,057.73, H3983.00 (base)		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	015	06	-30	MISSING	
-20	012	06	-20	MISSING	
-10	015	06	-10	MISSING	
0.0	022	07	0.0	MISSING	
+10	015	06	+10	MISSING	

LEVEL #3, 102 FEET			LEVEL #4, 202 FEET		
X484,982.64, Y185,057.73, H3983.00 (base)			X484,982.64, Y185,057.73, H3983.00 (base)		
TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	360	05	-30	360	04
-20	360	04	-20	360	06
-10	360	04	-10	354	05
0.0	360	05	0.0	352	04
+10	360	05	+10	348	04

PILOT BALLOON MEASURED WIND DATA

TABLE 4.

RELEASED FROM LC-33 DATE 30 September 1980 TIME 0919 MDT

COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH .

HEIGHTS ARE METERS AGL X OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
sfc		calm
60	270	01
120	240	02
180	255	02
240	290	03
300	285	04
360	290	03
420	300	05
480	280	03
540	290	03
600	315	03
660	335	02
720	345	05
780	360	04
840	025	04
900	010	06
960	015	06.
1020	025	07
1080	025	07
1140	020	09
1200	020	11
1260	020	09
1320	025	05
1380	015	07
1440	015	07
1500	010	08
1560	010	08
1620	015	09
1680	020	09
1740	020	09

[illegible][illegible]

GEOMETRIC COORDINATES
 106.40043 LAT DEG
 106.37933 LONG DEG

STATION DATA
 274000Z
 WHITE SANDS

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE USL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
986.0	3089.0	16.0	12.9	62.0
978.8	4154.7	18.0	11.3	65.0
873.0	4341.8	20.0	11.7	39.0
659.4	4787.7	20.8	9.7	49.0
650.0	5099.9	20.1	8.0	48.0
321.6	6002.6	19.7	7.4	45.0
794.0	7627.0	18.6	-2.3	24.0
766.2	8002.9	17.0	-9.1	20.0
700.6	10528.0	11.0	-11.7	19.0
660.4	12111.4	6.8	-8.7	32.0
643.0	12830.7	5.7	-12.3	26.0
618.0	13891.3	2.9	-14.7	26.0
605.0	14053.4	4.4	-19.2	16.0
577.4	15704.3	3.1	-21.0	15.0
561.4	16449.5	1.0	-22.7	15.0
537.0	17591.6	-1.1	-24.3	14.0
500.0	19402.0	-5.1	-28.4	14.0
446.8	22683.4	-13.5	-35.2	14.0
426.4	23513.5	-14.2	-35.8	14.0
400.6	25101.4	-17.6	-38.5	14.0
358.6	27763.0	-22.2	-42.3	14.0
339.6	29331.5	-24.0	-43.2	15.0
300.0	32221.7	-30.5	-43.0	16.0
285.2	33193.5	-33.5	-50.0	17.0
250.0	36193.9	-40.6		
200.0	41071.0	-53.2		
195.2	41536.4	-53.5		
162.4	45805.1	-62.8		
150.0	47303.3	-66.0		
119.4	51033.3	-70.0		
111.6	52730.5	-73.5		
100.0	54005.9	-72.5		

GEODETIC COORDINATES
 32.40003 LAT (EG)
 106.37033 LONG (EG)

SIGHTED AT LEVEL ONLY

2700020521
 00117 50125

0815 HRS MDT

TABLE 5 (continued)

PRESSURE OF OCEANIC WATER MILLIBARS (PSL FEET)	TEMPERATURE		REL. HUM. PERCENT
	AIR	DEWPOINT	
	DEGREES	CENTIGRADE	
74.7	60.70	4.1	-71.5
70.0	61.51	4	-69.4
60.0	64.23	2	-64.1
50.0	68.55	3	-62.0
33.0	77.02	3	-54.9
30.0	79.29	5	-55.3
24.0	83.86	7	-43.0
20.0	85.50	1	-48.5
14.5	95.12	4	-46.2

STATION ALTIMETER 5999.00 FEET
 0815 HRS MDT
 0815 HRS MDT

UPPER AIR DATA
 27400200Z
 WHITE SANDS

TABLE 6 (continued)

GEOPHYSIC COORDINATES
 32.40043 LAT LFG
 106.57033 LONG DEG

GEOPHYSIC ALTIMETER FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	HUMIDITY PERCENT	DENSITY GRAMS/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
14300.0	999.6	-5.1	10.0	609.2	637.9	95.0	31.5	1.000148
14400.0	939.0	-6.5	10.0	639.7	630.3	93.7	32.0	1.000145
14500.0	430.0	-7.3	14.6	630.4	634.8	92.1	32.4	1.000143
14600.0	471.0	-9.1	14.0	521.2	633.2	91.1	32.0	1.000141
14700.0	461.0	-10.4	14.0	612.1	631.6	89.9	31.4	1.000138
14800.0	452.9	-11.7	14.0	603.2	630.0	87.9	29.9	1.000136
14900.0	444.0	-13.0	14.0	594.5	628.4	86.0	28.4	1.000134
15000.0	435.5	-13.8	14.0	584.5	627.5	85.2	26.3	1.000132
15100.0	426.7	-14.2	14.0	573.6	627.0	84.4	24.0	1.000129
15200.0	418.2	-15.2	14.0	564.7	625.7	85.2	20.6	1.000127
15300.0	409.8	-16.3	14.0	555.7	624.4	85.1	17.2	1.000125
15400.0	401.0	-17.4	14.0	546.9	623.1	79.2	14.2	1.000123
15500.0	393.5	-18.5	14.0	537.8	622.0	60.4	11.6	1.000121
15600.0	385.5	-19.1	14.0	529.7	620.9	44.2	10.7	1.000119
15700.0	377.7	-20.0	14.0	519.7	619.9	41.6	11.3	1.000117
15800.0	370.1	-20.9	14.0	510.4	618.8	8	12.1	1.000115
15900.0	362.0	-21.7	14.0	502.3	617.8	343.7	14.3	1.000113
16000.0	355.2	-22.5	14.2	493.0	616.8	320.5	17.6	1.000111
16100.0	347.9	-23.2	14.6	484.0	616.0	306.3	22.7	1.000109
16200.0	340.7	-23.1	14.9	476.2	615.1	301.6	24.3	1.000107
16300.0	333.7	-24.3	15.1	463.2	613.8	293.1	25.7	1.000105
16400.0	325.7	-25.0	15.3	460.5	612.5	301.3	24.4	1.000103
16500.0	319.4	-27.1	15.5	452.9	611.1	302.6	23.6	1.000102
16600.0	313.7	-26.2	15.7	445.5	609.7	304.4	25.5	1.000100
16700.0	307.7	-27.5	15.8	436.2	608.3	305.8	27.2	1.000098
16800.0	300.5	-30.5	16.0	431.0	606.9	306.5	27.5	1.000096
16900.0	293.9	-31.7	16.4	424.0	605.4	307.0	27.7	1.000095
17000.0	287.6	-33.0	16.9	417.7	603.8	305.9	28.0	1.000093
17100.0	281.0	-34.2	16.5	410.5	602.2	303.0	28.5	1.000092
17200.0	275.5	-35.4	16.5	403.4	600.7	304.9	29.7	1.000090
17300.0	269.1	-36.0	16.7	396.0	599.2	304.7	30.7	1.000089
17400.0	263.0	-37.3	16.8	388.0	597.7	304.4	30.7	1.000087

** 31 DEGREE OF HUMIDITY VALUE AND 0.40 IN THE INTERPOLATION.

GEOPHYSICAL COORDINATES
32.00003 LAT DEG
106.57033 LONG DEG

UNDER AIR DATA
774000000
WHITE SANDS

STATION ELEVATION 993.00 FEET
0815 HRS MDT
AS OBSERVED

TABLE 6 (continued)

GEOPHYSICAL ALTIMETER FSC FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KILOMETERS PER SECOND	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
35500.0	257.8	-38.9	4.0**	353.4	596.2	304.0	31.0	1.000005
36000.0	252.2	-40.1	1.1**	377.0	594.7	304.0	32.9	1.000004
36500.0	246.6	-41.4		370.6	593.1	303.5	34.2	1.000003
37000.0	241.0	-42.7		364.3	591.4	301.6	34.2	1.000001
37500.0	235.5	-44.0		358.0	589.8	299.0	33.6	1.000000
38000.0	230.2	-45.3		351.9	588.1	297.0	31.9	1.000078
38500.0	225.0	-46.6		345.9	586.4	295.0	31.1	1.000077
39000.0	219.9	-47.9		340.0	584.8	294.0	31.1	1.000076
39500.0	214.9	-49.1		334.2	583.1	294.0	30.8	1.000074
40000.0	210.1	-50.4		328.6	581.4	293.1	30.2	1.000073
40500.0	205.3	-51.7		323.0	579.7	295.8	29.6	1.000072
41000.0	200.7	-53.0		317.5	578.0	296.2	29.2	1.000071
41500.0	196.0	-53.4		310.8	577.4	295.8	28.8	1.000069
42000.0	191.3	-54.5		304.9	576.1	294.9	28.5	1.000068
42500.0	186.4	-55.7		299.3	574.4	295.9	28.3	1.000067
43000.0	182.3	-56.9		293.6	572.8	297.9	28.3	1.000065
43500.0	178.0	-58.2		288.4	571.2	293.4	29.2	1.000064
44000.0	173.4	-59.4		283.2	569.6	293.3	30.5	1.000063
44500.0	169.6	-60.6		278.0	568.0	293.4	30.7	1.000062
45000.0	165.5	-61.8		273.0	566.3	301.6	29.8	1.000061
45500.0	161.6	-63.0		267.9	564.8	303.9	28.9	1.000060
46000.0	157.7	-64.3		262.6	563.4	306.4	27.8	1.000058
46500.0	153.8	-65.9		257.4	562.1	307.3	27.5	1.000057
47000.0	150.0	-66.0		252.3	560.7	304.1	28.7	1.000056
47500.0	146.3	-66.3		247.0	559.3	301.9	29.9	1.000055
48000.0	142.6	-67.4		241.9	558.3	302.4	30.5	1.000054
48500.0	139.0	-68.7		236.8	557.1	302.9	31.0	1.000053
49000.0	135.5	-69.9		231.9	555.9	304.0	30.7	1.000052
49500.0	132.1	-70.3		227.0	554.8	305.2	30.3	1.000051
50000.0	128.8	-71.3		222.3	553.4	307.9	29.4	1.000050
50500.0	125.5	-72.2		217.7	552.2	311.1	26.6	1.000048
51000.0	122.3	-73.1		213.1	551.0	313.5	24.0	1.000047

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODNETIC COORDINATES
32.40045 LAT 1EG
106.37033 LOI 1EG

DEPTH DATA
2700000000
00100 50000

0315 HRS MDT

TABLE 6 (continued)

DEPTH METER	PERCENT MILLIGRAMS	TEMPERATURE DEGREES C	DENSITY GM/CM ³	SPEED OF SOUND METER PER SECOND	DIRECTION, DEGREES (TH)	SPEED KNOTS	INDEX OF REFRACTION
21000.0	119.5	-74.0	203.7	549.3	323.2	21.7	1.000046
22000.0	115.2	-73.7	203.3	549.9	329.8	19.7	1.000045
23000.0	113.5	-73.3	193.0	550.0	337.5	18.0	1.000044
24000.0	110.0	-73.7	192.7	550.2	341.0	16.3	1.000043
25000.0	107.5	-73.4	197.5	550.7	342.9	14.6	1.000042
26000.0	104.3	-73.1	192.5	551.1	345.4	13.2	1.000041
27000.0	102.1	-72.7	177.5	551.5	348.5	12.0	1.000040
28000.0	99.5	-72.5	172.3	551.4	353.3	11.3	1.000038
29000.0	97.1	-72.4	169.3	552.0	353	11.1	1.000037
30000.0	94.5	-72.3	164.0	552.1	354	10.6	1.000037
31000.0	92.1	-72.2	159.7	552.2	360	9.0	1.000036
32000.0	89.8	-72.1	155.6	552.3	43.6	8.1	1.000035
33000.0	87.5	-72.1	151.0	552.5	43.0	8.9	1.000034
34000.0	85.3	-72.1	147.7	552.6	52.8	9.8	1.000033
35000.0	83.1	-71.9	143.9	552.7	53.0	10.5	1.000032
36000.0	81.8	-71.8	140.2	552.8	52.8	11.1	1.000031
37000.0	79.8	-71.7	136.5	552.9	53.0	11.4	1.000030
38000.0	77.5	-71.6	133.0	553.0	53.0	11.5	1.000030
39000.0	75.1	-71.5	129.0	553.2	53.6	11.8	1.000029
40000.0	73.1	-71.4	125.0	553.9	54.0	12.5	1.000028
41000.0	71.5	-70.8	122.2	555.2	58.8	13.1	1.000027
42000.0	69.5	-70.4	118.5	556.4	58.9	13.3	1.000026
43000.0	67.4	-68.3	115.2	557.0	63.0	13.4	1.000026
44000.0	65.1	-67.4	111.9	558.0	63.5	13.1	1.000025
45000.0	63.5	-65.0	108.7	559.0	63.4	12.7	1.000024
46000.0	62.3	-63.7	105.6	561.1	70.7	12.1	1.000023
47000.0	61.5	-64.3	102.5	562.3	71.0	11.9	1.000023
48000.0	59.3	-64.1	93.6	563.3	73.0	9.9	1.000022
49000.0	58.5	-63.8	97.1	563.7	73.6	9.6	1.000022
50000.0	56.3	-63.5	94.0	564.1	73.9	9.4	1.000021
51000.0	54.3	-63.2	92.2	564.2	71.9	9.4	1.000021
52000.0	52.3	-62.9	89.8	564.9	70.4	9.8	1.000020

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.57033 LONG DEG

UPPER AIR DATA
 274000Z
 0816 1955 MET

TABLE 6 (continued)

STATION ALTITUDE FEET	TEMPERATURE DEGREES CELSIUS	RELATIVE HUMIDITY PERCENT	DENSITY GRAMS PER CUBIC METER	SOUND KNOTS	WIND DIRECTION DEGREES (True)	WIND SPEED KNOTS	INDEX OF REFRACTION
67500.0	-62.9	-62.6	37.5	565.2	60.7	16.1	1.000019
68000.0	-62.0	-62.0	35.3	565.0	90.5	10.1	1.000019
68500.0	-62.1	-62.1	33.1	565.0	94.4	10.1	1.000018
69000.0	-61.7	-61.7	30.9	565.5	93.2	10.1	1.000018
69500.0	-61.3	-61.3	28.9	567.1	100.4	10.2	1.000018
70000.0	-60.8	-60.8	26.8	567.6	102.7	10.3	1.000017
70500.0	-60.4	-60.4	24.9	568.2	100.0	10.2	1.000017
71000.0	-59.6	-59.6	22.9	568.8	96.2	9.9	1.000016
71500.0	-59.0	-59.0	21.1	569.3	91.4	9.7	1.000016
72000.0	-58.2	-58.2	19.2	569.9	80.6	9.6	1.000015
72500.0	-56.7	-56.7	17.5	570.5	80.2	9.6	1.000015
73000.0	-56.3	-56.3	15.7	571.0	83.6	9.6	1.000015
73500.0	-57.4	-57.4	14.0	571.6	83.9	9.6	1.000014
74000.0	-57.5	-57.5	12.4	572.2	84.1	9.6	1.000014
74500.0	-57.0	-57.0	10.8	572.7	84.4	9.6	1.000014
75000.0	-56.6	-56.6	9.2	573.3	85.5	9.6	1.000013
75500.0	-56.2	-56.2	7.7	573.8	85.6	9.6	1.000013
76000.0	-55.3	-55.3	6.2	574.4	85.6	8.9	1.000013
76500.0	-54.9	-54.9	5.4	575.0	74.0	7.7	1.000012
77000.0	-54.9	-54.9	5.4	575.5	61.5	6.8	1.000012
77500.0	-55.0	-55.0	5.2	575.4	51.6	7.3	1.000012
78000.0	-55.1	-55.1	5.0	575.3	45.6	8.4	1.000011
78500.0	-55.2	-55.2	4.8	575.2	41.5	9.6	1.000011
79000.0	-55.0	-55.0	4.6	575.1	44.5	10.7	1.000011
79500.0	-54.2	-54.2	4.4	575.4	47.9	11.7	1.000011
80000.0	-53.4	-53.4	4.2	576.5	50.9	12.8	1.000010
80500.0	-52.5	-52.5	4.0	577.5	52.1	13.3	1.000010
81000.0	-51.3	-51.3	3.7	578.0	52.9	13.7	1.000010
81500.0	-51.3	-51.3	3.6	579.0	53.6	14.0	1.000009
82000.0	-51.0	-51.0	3.5	580.7	54.5	14.1	1.000009
82500.0	-50.2	-50.2	3.4	581.7	55.6	13.9	1.000009
83000.0	-49.4	-49.4	3.3	582.8	56.7	13.8	1.000009

GEONUTIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

WIND DATA
270000Z
041150Z

TABLE 6 (continued)

STATION ALTITUDE 5900.00 FEET
0815 HRS MDT
041150Z

SEA LEVEL PRESSURE	TEMPERATURE	REL. HUM. PERCENT	DENSITY	SPEED OF	WIND DATA	INDEX
IN HG	IN DEG F		GM/CM ³	SOUND	DIR CLIM. SPEED	OF
IN HG	IN DEG F		GM/CM ³	KT	DEGREES (TN)	REFRACTION
30.00	29.7	-43.3	33.3	563.5	57.6	13.3
30.00	29.1	-43.1	37.4	563.0	58.2	12.4
30.00	28.5	-43.7	35.5	563.0	53.9	11.5
30.00	28.0	-43.7	35.7	563.7	60.0	10.5
30.00	27.5	-43.7	34.9	563.7	63.4	9.8
30.00	27.0	-43.0	34.1	563.7	67.5	9.1
30.00	26.5	-43.0	33.3	563.8	71.8	8.4
30.00	26.0	-43.0	32.6	563.8	74.7	8.0
30.00	25.5	-43.5	31.8	563.9	83.6	7.9
30.00	25.0	-43.5	31.1	563.9	97.6	7.9
30.00	24.5	-43.2	30.3	564.5	104.3	7.2
30.00	24.0	-47.0	29.6	564.7	111.2	6.0
30.00	23.7	-47.0	28.9	565.1	121.0	4.8
30.00	23.5	-47.0	28.2	565.5	127.3	4.4
30.00	23.0	-47.0	27.6	565.8	114.1	5.2
30.00	22.5	-46.7	26.9	566.2	105.0	6.3
30.00	22.0	-46.4	26.3	566.6	93.7	7.5
30.00	21.5	-45.1	25.6	567.0	93.0	8.2
30.00	21.0	-45.5	25.0	567.4	33.3	9.0
30.00	20.5	-45.5	24.4	567.8	34.3	9.9
30.00	20.0	-45.2	23.9	568.2		
30.00	19.5	-44.0	23.3	568.6		
30.00	19.0	-44.0	22.7	569.0		
30.00	18.5	-44.5	22.2	569.4		

TABLE 7
 0815 HRS MDT
 0815 HRS MDT
 0815 HRS MDT

STATIONARY LEVELS
 2740000021
 0815 HRS MDT

ASTRONOMICAL COORDINATES
 32.30000 LAT DEG
 106.37000 LONG DEG

TABLE 7

PRESSURE MILLIBARS	HEIGHT FEET	TEMPERATURE AIR DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
800.0	5030.	20.1	40.	43.4	6.4
800.0	6309.	18.8	29.	82.1	9.7
750.0	8615.	15.6	20.	98.2	13.7
700.0	10517.	11.0	19.	90.2	14.5
650.0	12526.	6.1	20.	70.4	22.4
600.0	14053.	4.2	16.	91.1	14.7
550.0	16969.	.5	15.	102.0	20.0
500.0	19454.	-5.1	14.	95.7	31.5
450.0	22134.	-12.1	14.	87.2	29.5
400.0	25059.	-17.6	14.	70.6	13.7
350.0	28303.	-23.0	14.	510.0	21.0
300.0	31957.	-30.5	10.	300.5	27.5
250.0	36110.	-40.6		304.0	33.5
200.0	40370.	-53.2		290.2	29.1
175.0	43750.	-59.0		298.4	30.1
150.0	46377.	-60.0		304.2	28.7
125.0	50451.	-72.4		311.7	20.3
100.0	54734.	-72.5		352.9	11.4
75.0	59095.	-71.8		53.0	11.4
70.0	61038.	-69.4		60.1	13.2
60.0	64605.	-64.1		72.7	10.1
50.0	68577.	-62.0		95.3	10.1
40.0	72947.	-58.1		83.9	9.6
30.0	78951.	-55.3		40.2	11.2
25.0	82322.	-49.1		57.0	13.7
20.0	87036.	-44.5		97.7	7.9
15.0	93300.	-44.7			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

0745 HRS MDT

[illegible]

PERCENTAGE OF ETHYL ALCOHOL	TEMPERATURE		PERCENT ACETONE
	AIR	REFRIGERANT	
0.0	12.5	10.9	30.0
0.25	10.5	10.5	25.0
0.5	21.0	10.5	05.0
0.75	21.5	5.4	05.0
1.0	21.5	-7.0	25.0
1.25	11.0	-9.2	34.0
1.5	6.4	-10.7	33.0
1.75	4.5	-17.1	19.0
2.0	0.9	-20.5	14.0
2.25	2.1	-23.4	13.0
2.5	2.4	-25.2	13.0
2.75	-5.1	-28.2	13.0
3.0	-7.0	-31.0	13.0
3.25	-12.3	-35.0	13.0
3.5	-16.3	-37.5	14.0
3.75	-18.1	-39.0	14.0
4.0	-20.5	-40.2	14.0
4.25	-31.0	-45.0	14.0
4.5	-30.0		
4.75	-30.2		
5.0	-52.5		
5.25	-62.4		
5.5	-65.5		
5.75	-73.1		
6.0	-70.1		
6.25	-72.0		
6.5	-71.1		
6.75	-72.0		
7.0	-70.1		
7.25	-61.7		
7.5	-56.4		
7.75	-54.0		
8.0			

GEODETIC COORDINATES
 32.8965 LAT DEG
 106.0936 LONG DEG

SIGNIFICANT LEVEL DATA
 270010500
 000000000

STATION ALTITUDE 9126.00 FEET
 0745 HRS MDT
 ASCESSION 100. 300

TABLE 8 (continued)

PRESSURE GEODETIC ALTITUDE MILLIBARS HSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
20.0 88064.5	-49.3	
10.0 103354.3	-42.2	

GEODOLIC COORDINATES
32.88865 LAT 11EG
106.09965 LON 11EG

UPPER AIR DATA
2740010300
HOLLOMAN

11,100 FEET 1120.59 FEET 10L
0745 HRS MDT
300

TABLE 9.

GEODOLIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND METERS KILOMETERS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KILOMETERS	
4120.0	888.1	12.5	10.0	90.0	1067.3	660.5	00	0	1.000299
4500.0	866.5	19.7	14.5	72.2	1075.7	669.1	119.5	1.0	1.000302
5000.0	855.3	21.5	14.6	64.7	1001.5	671.2	119.5	2.3	1.000296
5500.0	838.5	21.7	10.7	49.6	984.9	670.9	119.5	3.6	1.000276
6000.0	825.0	21.5	9.8	33.7	870.4	670.0	118.4	4.8	1.000254
6500.0	809.6	21.3	7	25.3	954.8	669.5	112.0	5.7	1.000241
7000.0	785.3	20.4	-9	24.0	941.3	668.3	105.0	6.1	1.000235
7500.0	781.2	19.0	-1.2	25.4	926.6	666.8	95.7	5.6	1.000232
8000.0	767.5	17.7	-1.6	26.8	916.5	665.3	87.1	6.0	1.000229
8500.0	753.7	16.4	-2.0	28.2	904.3	663.8	61.7	7.0	1.000225
9000.0	740.3	15.1	-2.5	20.6	892.3	662.3	78.5	7.4	1.000222
9500.0	727.1	13.8	-3.0	31.0	880.6	660.8	75.8	7.7	1.000219
10000.0	714.2	12.5	-3.6	32.4	868.9	659.2	67.8	7.9	1.000215
10500.0	701.5	11.2	-4.2	33.6	857.5	657.7	59.0	8.3	1.000212
11000.0	686.8	10.0	-5.2	33.6	845.0	656.3	50.2	9.3	1.000208
11500.0	676.2	8.8	-6.4	33.5	833.8	654.9	43.7	11.1	1.000204
12000.0	665.9	7.6	-7.5	33.3	822.1	653.4	57.8	14.1	1.000200
12500.0	651.8	6.5	-8.0	33.0	810.6	652.0	66.0	17.3	1.000196
13000.0	639.8	5.6	-11.8	27.2	798.4	650.9	73.2	20.7	1.000190
13500.0	628.6	4.8	-15.5	21.2	786.2	649.8	77.2	19.0	1.000184
14000.0	616.4	4.7	-18.3	16.9	772.2	649.0	81.0	16.0	1.000179
14500.0	605.0	4.8	-20.4	14.0	757.6	649.8	84.2	12.1	1.000175
15000.0	593.7	4.1	-21.2	13.7	745.5	648.9	89.1	9.3	1.000172
15500.0	582.7	3.4	-21.9	13.5	733.5	648.1	95.2	9.8	1.000169
16000.0	571.0	2.7	-22.4	13.2	721.7	647.3	101.6	12.7	1.000166
16500.0	561.2	2.1	-23.4	13.0	709.8	646.6	105.6	18.4	1.000163
17000.0	550.7	1.9	-23.5	13.0	697.0	646.4	100.9	23.0	1.000160
17500.0	540.3	1.6	-20.6	13.0	687.3	644.7	107.5	27.1	1.000157
18000.0	530.1	1.3	-25.7	13.0	677.8	643.0	105.3	27.1	1.000155
18500.0	520.1	-2.2	-26.9	13.0	668.4	641.4	102.4	26.5	1.000152
19000.0	516.2	-3.6	-25.0	13.0	659.2	639.7	97.4	26.9	1.000150
19500.0	509.6	-5.0	-20.1	13.0	650.1	638.1	91.5	28.2	1.000148

STATION ALTITUDE 9126.59 FEET MSL
 30 SEP 67
 ASCENDING 0.0. 300

0745 HRS MDT

UPPER AIR DATA
 2700010300
 HOLLOWAY

ALLOTIC COORDINATES
 32.88865 LAT 1EG
 106.09965 LON 1EG

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ MULTER	SPEED OF SOUND KI/MS	DIRECTION DEGREES (T)	WIND DATA SPEED KI/MS	INDEX OF REFRACTION
20000.0	491.7	-30.2	13.0	690.4	036.7	04.9	30.9	1.000145
20500.0	491.5	-7.3	13.0	639.8	035.3	00.0	32.3	1.000143
21000.0	472.1	-3.4	13.0	621.1	033.9	77.4	33.3	1.000141
21500.0	462.9	-9.6	13.0	611.7	032.6	77.0	31.3	1.000138
22000.0	453.4	-10.7	13.0	602.3	031.2	73.5	29.1	1.000136
22500.0	443.0	-11.9	13.0	593.2	029.8	73.5	28.0	1.000134
23000.0	430.3	-13.0	13.2	584.0	028.4	00.7	27.1	1.000132
23500.0	427.0	-14.2	13.5	575.0	027.0	01.2	27.0	1.000130
24000.0	419.1	-15.3	13.8	566.2	025.6	02.0	27.0	1.000128
24500.0	410.3	-16.5	14.0	557.5	024.2	03.7	27.3	1.000126
25000.0	402.5	-17.7	14.0	548.4	022.7	05.5	27.2	1.000123
25500.0	394.4	-18.7	14.0	539.8	021.5	91.2	26.8	1.000121
26000.0	386.3	-19.5	14.0	530.0	020.3	94.0	24.3	1.000119
26500.0	378.5	-20.4	14.0	521.5	019.4	94.0	19.2	1.000117
27000.0	370.7	-21.2	14.0	512.6	018.4	83.2	13.6	1.000115
27500.0	363.2	-22.1	14.0	503.9	017.3	03.9	8.7	1.000113
28000.0	355.8	-22.9	14.0	495.3	016.3	22.3	7.0	1.000111
28500.0	348.5	-23.8	14.0	486.9	015.2	347.3	8.9	1.000109
29000.0	341.4	-24.7	14.0	478.6	014.1	320.0	12.6	1.000107
29500.0	334.3	-25.7	14.0	470.5	012.9	313.7	17.2	1.000105
30000.0	327.3	-26.7	14.0	462.6	011.6	308.5	21.9	1.000104
30500.0	320.4	-27.8	14.0	454.9	010.3	303.7	26.4	1.000102
31000.0	313.7	-28.8	14.0	447.3	009.0	304.0	28.4	1.000100
31500.0	307.2	-29.8	14.0	439.8	007.7	302.7	30.2	1.000098
32000.0	300.8	-30.9	14.0	432.4	006.4	302.6	31.4	1.000097
32500.0	294.3	-31.9	12.3**	425.0	005.1	302.5	32.6	1.000095
33000.0	288.0	-33.0	10.3**	417.7	003.7	304.2	33.6	1.000093
33500.0	281.8	-34.1	8.4**	410.6	002.4	305.0	34.6	1.000092
34000.0	275.7	-35.1	6.0**	403.5	001.1	306.0	35.2	1.000090
34500.0	269.8	-36.2	4.4**	396.0	000.7	306.2	35.9	1.000088
35000.0	264.1	-37.3	2.5**	389.8	000.4	304.1	36.5	1.000087
35500.0	258.3	-38.3	.5**	383.2	000.0	302.1	37.2	1.000085

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION: 4111000 4120.59 FT FSL
 0745 HRS MDT
 ANOMALOUS: 500

UPPER AIR DATA
 2701010300
 1000300

GEODETIC COORDINATES
 32.88865 LAT DEG
 196.09965 LONG DEG

TABLE 9 (continued)

SEA LEVEL PRESSURE IN HG	TEMPERATURE AIR	REL. HUMIDITY PERCENT	DENSITY G/CM ³	SPEED OF SOUND KNOTS	DIRECTION OF GREESE (IN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
30.000.0	252.07	-39.0	375.9	590.2	299.2	38.6	1.000064
30.000.0	247.01	-39.0	369.0	595.0	290.5	40.1	1.000062
30.000.0	241.05	-41.0	362.6	595.2	294.9	41.0	1.000061
30.000.0	236.09	-42.0	356.7	591.5	292.7	41.8	1.000079
30.000.0	230.07	-44.0	350.7	589.8	290.9	40.8	1.000078
30.000.0	225.05	-45.0	344.9	588.0	300.2	39.9	1.000077
30.000.0	220.04	-46.0	339.1	586.2	304.0	39.7	1.000076
30.000.0	215.05	-48.0	333.5	584.5	300.9	39.6	1.000074
30.000.0	210.06	-49.0	327.9	582.7	304.6	38.9	1.000073
30.000.0	205.09	-50.0	322.5	581.0	302.1	38.4	1.000072
30.000.0	200.02	-52.0	317.2	579.2	299.0	38.3	1.000071
30.000.0	195.05	-53.0	311.5	577.6	297.0	38.2	1.000069
30.000.0	190.09	-54.0	305.7	576.0	295.0	36.9	1.000068
30.000.0	185.05	-55.0	300.1	574.5	294.1	35.7	1.000067
30.000.0	180.09	-56.0	294.6	572.9	294.9	35.8	1.000066
30.000.0	175.05	-58.0	289.2	571.4	290.0	36.1	1.000064
30.000.0	170.02	-59.0	283.8	569.3	300.3	37.6	1.000063
30.000.0	165.01	-60.0	278.6	568.2	304.1	39.2	1.000062
30.000.0	160.01	-61.0	273.5	566.9	305.9	37.9	1.000061
30.000.0	155.02	-62.0	268.4	565.2	307.9	36.6	1.000060
30.000.0	150.03	-63.0	262.9	564.0	307.7	35.6	1.000059
30.000.0	145.05	-64.0	257.6	562.5	307.4	34.6	1.000057
30.000.0	140.04	-65.0	252.4	561.6	305.2	33.8	1.000056
30.000.0	135.01	-66.0	247.0	560.5	290.6	33.2	1.000055
30.000.0	130.05	-67.0	241.7	559.4	296.5	33.1	1.000054
30.000.0	125.09	-68.0	236.0	558.4	291.1	33.2	1.000053
30.000.0	120.06	-69.0	231.5	557.5	303.7	31.9	1.000052
30.000.0	115.05	-70.0	226.6	556.5	309.9	30.5	1.000050
30.000.0	110.04	-71.0	221.7	555.2	313.9	28.7	1.000049
30.000.0	105.09	-72.0	217.0	554.1	316.7	26.6	1.000048
30.000.0	100.05	-73.0	212.4	553.1	319.5	24.4	1.000047
30.000.0	95.06	-74.0	207.9	552.0	320.5	22.2	1.000046

STATION ALTITUDE 1120.53 FEET MSL
30 SEP 51
ASCISSION NO. 309 0745 HRS MDT

UPPER AIR DATA
2740010300
110LL0000

GEODETIC COORDINATES
32.84865 LAT DEG
106.09965 LON DEG

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
32000.0	113.8	-73.1		203.4	551.0	321.8	19.9	1.000045
32100.0	113.8	-73.5		198.0	550.4	319.3	15.1	1.000044
32200.0	110.9	-74.0		193.9	549.8	314.6	10.4	1.000043
32300.0	108.1	-73.8		188.8	550.0	319.6	8.4	1.000042
32400.0	105.3	-73.4		183.0	550.0	323.5	6.6	1.000041
32500.0	102.6	-73.0		178.6	551.2	341.8	7.4	1.000040
32600.0	100.9	-72.6		173.7	551.7	351.5	9.0	1.000039
32700.0	97.8	-72.4		169.1	552.0	35	10.0	1.000038
32800.0	95.0	-72.1		164.6	552.4	9.7	10.8	1.000037
32900.0	92.6	-71.9		160.2	552.7	17.3	11.7	1.000036
33000.0	90.2	-71.7		156.0	553.0	23.5	12.2	1.000035
33100.0	87.9	-71.4		151.8	553.3	29.3	12.7	1.000034
33200.0	85.7	-71.2		147.6	553.6	30.4	12.2	1.000033
33300.0	83.5	-71.3		144.2	553.5	30.3	11.4	1.000032
33400.0	81.4	-71.7		140.8	553.0	31.5	10.9	1.000031
33500.0	79.3	-72.1		137.4	552.5	34.1	10.9	1.000031
33600.0	77.3	-72.4		134.2	552.0	36.8	11.0	1.000030
33700.0	75.4	-72.8		131.0	551.4	40.0	10.9	1.000029
33800.0	73.5	-71.9		127.1	552.7	43.2	10.9	1.000028
33900.0	71.6	-70.9		123.3	554.0	47.9	10.6	1.000027
34000.0	69.8	-70.0		119.7	555.2	53.2	10.4	1.000027
34100.0	68.1	-69.4		116.4	556.1	50.0	10.4	1.000026
34200.0	66.4	-68.8		113.2	556.9	53.2	10.6	1.000025
34300.0	64.8	-68.2		110.0	557.8	54.5	10.7	1.000024
34400.0	63.2	-67.5		107.0	558.0	54.8	10.8	1.000024
34500.0	61.6	-66.9		104.1	559.5	55.3	10.8	1.000023
34600.0	60.1	-66.3		101.2	560.3	57.5	10.8	1.000023
34700.0	58.6	-65.7		98.4	561.2	63.6	10.7	1.000022
34800.0	57.2	-65.0		95.7	562.0	69.0	10.7	1.000021
34900.0	55.8	-64.4		93.1	562.8	72.9	10.7	1.000021
35000.0	54.4	-63.8		90.5	563.7	75.5	10.6	1.000020
35100.0	53.0	-63.2		88.0	564.5	78.3	10.7	1.000020

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
2740010300
HOLL0740

STATION ALTITUDE 4126.59 FEET MSL
30 SEP 67
0745 HRS MDT
ASCENSION 40. 301

TABLE 9 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METRIC	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TD)	SPEED KNOTS	INDEX OF REFRACTION
6900.0	51.7	-62.6		85.6	565.4	81.9	11.1	1.000019
6850.0	50.5	-61.9		83.2	560.2	82.1	11.5	1.000019
6900.0	49.2	-61.3		81.0	557.0	92.5	12.0	1.000018
6900.0	48.1	-60.8		78.9	557.7	101.4	12.6	1.000018
7000.0	46.9	-60.2		76.8	568.5	103.3	13.5	1.000017
7000.0	45.8	-59.7		74.7	569.2	110.9	11.8	1.000017
7100.0	44.7	-59.1		72.6	570.0	113.1	10.2	1.000016
7100.0	43.7	-58.5		70.9	570.7	110.6	8.5	1.000016
7200.0	42.6	-58.0		69.0	571.5	92.6	7.2	1.000015
7250.0	41.6	-57.4		67.2	572.2	69.9	6.8	1.000015
7300.0	40.6	-56.9		65.4	572.9	57.6	7.4	1.000015
7300.0	39.6	-56.4		63.7	573.6	58.0	8.1	1.000014
7400.0	38.7	-56.2		62.2	573.8	53.4	8.9	1.000014
7450.0	37.8	-56.1		60.7	574.0	60.9	9.1	1.000014
7500.0	36.9	-55.9		59.2	574.2	65.6	8.9	1.000013
7500.0	36.0	-55.8		57.6	574.4	70.3	8.8	1.000013
7600.0	35.2	-55.6		56.4	574.6	63.5	9.0	1.000013
7650.0	34.4	-55.5		55.0	574.8	55.6	9.5	1.000012
7700.0	33.6	-55.3		53.7	575.0	47.0	10.3	1.000012
7750.0	32.8	-55.2		52.4	575.2	44.3	11.0	1.000012
7800.0	32.0	-55.0		51.1	575.4	43.9	11.7	1.000011
7850.0	31.3	-54.9		49.9	575.6	43.5	12.3	1.000011
7900.0	30.5	-54.7		48.7	575.8	47.0	12.2	1.000011
7950.0	29.8	-54.5		47.5	576.0	54.2	11.9	1.000011
8000.0	29.1	-54.2		46.4	576.4	61.0	11.8	1.000010
8050.0	28.5	-53.9		45.2	576.8	65.1	11.8	1.000010
8100.0	27.8	-53.6		44.1	577.2	63.6	11.8	1.000010
8150.0	27.2	-53.3		43.0	577.6	63.0	11.9	1.000010
8200.0	26.5	-53.0		42.0	578.0	69.4	11.9	1.000009
8250.0	25.9	-52.7		41.0	578.4	70.6	11.8	1.000009
8300.0	25.3	-52.4		40.0	578.8	71.8	11.7	1.000009
8350.0	24.7	-52.1		39.0	579.2	73.3	11.5	1.000009

GEODLTIC COORDINATES
32.88865 LAT DEG
106.09465 LON DEG

UPPER AIR DATA
2740010300
HOLLOMAN

STATION ALTITUDE 4120.59 FEET MSL
20 SEP 69
ASLCSIAJ, NO. 300
0745 HRS MDT

TABLE 9 (continued)

GEOPHIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KIOTS	DIRECTION DEGREES (T)	WIND DATA SPEED KIOTS	INDEX OF REFRACTION
34000.0	24.2	-51.0		33.0	579.6	70.2	10.9	1.000008
34500.0	23.6	-51.5		37.1	580.0	73.4	10.4	1.000008
35000.0	23.1	-51.2		30.2	580.4	83.0	9.8	1.000008
35500.0	22.5	-50.9		35.3	580.8	84.1	9.7	1.000008
36000.0	22.0	-50.6		34.5	581.2	84.9	9.5	1.000008
36500.0	21.5	-50.3		33.6	581.6	85.8	9.3	1.000007
37000.0	21.0	-49.9		32.8	582.0	86.0	9.1	1.000007
37500.0	20.5	-49.6		32.0	582.4	82.4	8.8	1.000007
38000.0	20.1	-49.3		31.2	582.8	80.2	8.5	1.000007
38500.0	19.6	-49.1		30.5	583.1	70.9	8.1	1.000007
39000.0	19.2	-48.9		29.8	583.4	72.2	7.6	1.000007
39500.0	18.7	-48.6		29.1	583.7	66.9	7.1	1.000006
40000.0	18.3	-48.4		28.4	584.0	60.9	6.7	1.000006
40500.0	17.9	-48.2		27.7	584.3	50.0	6.6	1.000006
41000.0	17.5	-47.9		27.1	584.6	53.7	6.7	1.000006
41500.0	17.1	-47.7		26.4	584.9	50.9	6.8	1.000006
42000.0	16.7	-47.5		25.8	585.2	48.2	6.9	1.000006
42500.0	16.4	-47.2		25.2	585.5	51.9	6.7	1.000006
43000.0	16.0	-47.0		24.6	585.8	58.3	6.4	1.000005
43500.0	15.6	-46.9		24.1	586.1	65.4	6.1	1.000005
44000.0	15.3	-46.5		23.5	586.4	72.9	6.0	1.000005
44500.0	14.9	-46.3		22.9	586.7	78.9	5.5	1.000005
45000.0	14.6	-46.1		22.4	587.0	83.7	5.0	1.000005
45500.0	14.3	-45.8		21.9	587.3	83.9	4.6	1.000005
46000.0	14.0	-45.6		21.4	587.6	103.4	4.3	1.000005
46500.0	13.6	-45.4		20.9	587.9	83.9	3.3	1.000005
47000.0	13.3	-45.2		20.4	588.2	57.3	2.7	1.000005
47500.0	13.0	-44.9		19.9	588.5	20.0	3.1	1.000004
48000.0	12.7	-44.7		19.4	588.8	3.9	3.9	1.000004
48500.0	12.5	-44.5		19.0	589.1	351.3	4.6	1.000004
49000.0	12.2	-44.2		18.5	589.4	340.7	5.4	1.000004
49500.0	11.9	-44.0		18.1	589.7	333.3	6.4	1.000004

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
270010300
HOLLORAN

SLANT RANGE 9120.50 FEET
0745 HRS MDT
0745 HRS MDT

TABLE 9 (continued)

OF OR INTC	PER 5300L	TEMPERATURE	REL. HUM.	DENSITY	SPEED OF	WIND DATA	INDEX
AL TITUDE		ALT	PERCENT	GM/CUBIC	SOUND	DIRECTION	OF
FEET	MILLIONS	DEGREES		FEET	KNOTS	DEGREES	REFRACTION
10000.0	11.0	-43.0		17.7	590.0		1.000004
10000.0	11.0	-43.0		17.3	590.3		1.000004
10100.0	11.1	-43.3		16.9	590.9		1.000004
10100.0	10.9	-43.1		16.5	590.9		1.000004
10200.0	10.6	-42.9		16.1	591.2		1.000004
10200.0	10.9	-42.6		15.7	591.5		1.000003
10300.0	10.7	-42.4		15.3	591.8		1.000003

STATION ALTITUDE 4126.59 FEET MSL
 30 SEP 52
 0745 HRS MDT
 ASCENSION NO. 309

MANDATORY LEVELS
 2740010300
 HOLLOMAN

GEODETTIC COORDINATES
 32.88865 LAT DEG
 106.09965 LONG DEG

TABLE 10.

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA		
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT		DIRECTION DEGREES(TN)	SPEED KNOTS	
855.0	5108.	21.9	14.5	63.		119.5	2.6	
808.0	6833.	20.8	-0.8	24.		108.5	6.3	
750.0	8046.	16.1	-2.1	29.		80.5	7.3	
700.0	10551.	11.0	-4.2	34.		58.4	8.4	
650.0	12562.	6.3	-9.0	32.		67.2	17.7	
600.0	14705.	4.5	-20.7	14.		85.9	10.4	
550.0	17015.	1.8	-23.6	13.		107.0	23.3	
500.0	19504.	-5.1	-29.2	13.		91.2	28.3	
450.0	22107.	-11.2	-34.1	13.		78.8	28.6	
400.0	25114.	-18.1	-39.0	14.		87.8	27.1	
350.0	28352.	-23.6	-43.5	14.		353.5	8.2	
300.0	31905.	-31.0	-49.6	14.		302.5	31.5	
250.0	36161.	-39.2				298.0	39.2	
200.0	41045.	-52.5				299.0	38.2	
175.0	43825.	-59.0				299.0	37.4	
150.0	46905.	-65.5				302.7	33.7	
125.0	50535.	-71.1				317.8	25.9	
100.0	54826.	-72.6				351.0	8.9	
80.0	59144.	-71.9				33.1	10.9	
70.0	61727.	-70.1				52.3	10.4	
60.0	64763.	-66.3				57.1	10.8	
50.0	68428.	-61.7				80.1	11.7	
40.0	73018.	-56.5				57.2	7.8	
30.0	79035.	-54.6				52.0	12.0	
25.0	82895.	-52.2				72.4	11.6	
20.0	87654.	-49.3				80.1	6.5	
15.0	93393.	-46.4				70.0	5.7	
10.0	102801.	-42.2						

SYNOPTIC CONDENSED
 53.16712 LAT DEG
 106.49511 LONG DEG

SYNOPTIC LEVEL DATA
 2700030207
 JALFF

TABLE 11.

PRECIPITATION MILLIMETERS	SYNOPTIC WIND MILES PER HOUR	TEMPERATURE AIR DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT
692.6	4051.0	17.1	6.6
653.6	4664.6	20.6	7.7
656.0	5107.5	17.8	6.2
688.6	6333.3	19.4	6.0
700.0	10529.9	10.3	-6.5
650.3	10339.2	5.6	-2.0
610.0	13061.8	3.6	-19.1
603.4	14393.5	4.3	-22.5
584.0	15396.4	2.6	-24.9
554.4	16586.5	2.3	-26.1
500.0	19076.6	-5.5	-32.2
466.2	21267.0	-0.7	-34.0
453.6	21050.8	-10.0	-36.2
400.0	25397.6	-18.2	-42.2
366.1	2502.7	-20.0	-43.2
300.0	27614.2	-23.0	-45.2
331.3	20607.0	-27.5	-43.0
300.0	31375.2	-31.4	
250.0	35145.7	-40.6	
200.0	41114.2	-53.5	
163.0	45137.3	-62.4	
100.0	46941.1	-65.5	
143.4	47634.9	-67.0	
124.4	50603.1	-71.6	
117.4	53571.0	-73.6	
100.0	56562.6	-71.1	
70.0	61052.4	-69.8	
50.0	63603.2	-61.6	
42.4	72016.7	-57.0	
50.0	73254.0	-55.7	

STATION ALTITUDE 4051.00 FEET ASL
 30 SEP 62
 0850 HRS MDT
 ANGLE STATION 40. 207

TEMPERATURE DATA
 2740000207
 JALLER

GLOTTIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

TABLE 12.

GEOMATIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	832.4	17.1	58.0	1053.9	665.3	0	0	1.000210
4500.0	803.5	19.2	49.5	1079.9	667.7	87.5	8	1.000277
5000.0	753.2	19.0	42.0	1010.1	668.3	87.3	1.7	1.000268
5500.0	703.5	19.7	36.3	973.4	668.0	87.5	2.6	1.000258
6000.0	653.6	19.6	30.2	975.9	667.0	101.5	3.2	1.000248
6500.0	603.1	19.5	24.2	960.7	667.3	115.9	4.0	1.000238
7000.0	594.9	19.2	19.2	945.2	668.8	120.0	4.4	1.000230
7500.0	580.7	18.2	20.7	932.3	665.4	124.2	4.7	1.000227
8000.0	560.3	16.7	23.3	919.6	663.9	129.9	4.8	1.000224
8500.0	535.1	15.4	23.5	907.2	662.5	133.2	4.9	1.000221
9000.0	539.6	14.2	25.3	894.9	661.0	134.9	5.0	1.000218
9500.0	520.4	12.9	26.9	882.0	659.0	122.7	4.2	1.000215
10000.0	513.5	11.6	28.4	871.0	658.1	98.9	3.6	1.000212
10500.0	508.8	10.4	29.9	859.3	656.6	80.1	4.0	1.000209
11000.0	500.6	9.1	31.0	847.5	655.1	42.0	6.3	1.000206
11500.0	475.4	7.8	32.1	835.9	653.6	37.0	9.1	1.000203
12000.0	463.1	6.5	33.3	824.5	652.1	52.5	11.6	1.000199
12500.0	450.9	5.4	32.2	812.7	650.7	63.8	14.0	1.000195
13000.0	439.8	4.7	32.6	799.8	649.9	77.3	13.3	1.000189
13500.0	427.3	4.1	21.0	787.1	649.0	87.7	12.3	1.000184
14000.0	415.4	3.8	15.7	773.6	648.6	95.5	10.4	1.000179
14500.0	404.0	4.1	11.9	758.4	648.9	97.8	9.7	1.000174
15000.0	392.8	3.3	11.4	746.6	647.9	96.5	9.4	1.000171
15500.0	381.7	2.6	10.9	734.6	647.1	102.0	11.7	1.000168
16000.0	370.9	2.4	10.5	721.2	646.9	100.3	14.4	1.000164
16500.0	360.2	2.3	10.1	708.1	646.8	109.9	17.7	1.000161
17000.0	349.0	1.2	10.9	697.7	645.4	115.4	20.0	1.000159
17500.0	339.2	-0.2	10.0	687.9	643.3	116.0	21.8	1.000156
18000.0	329.3	-1.5	10.0	678.2	642.2	115.6	22.6	1.000154
18500.0	319.0	-2.9	10.0	668.7	640.0	113.6	23.2	1.000152
19000.0	309.2	-4.2	10.0	659.4	639.0	109.1	23.2	1.000149
19500.0	309.5	-5.6	10.0	650.1	637.4	103.1	23.5	1.000147

STATION: 2740050200
 DATE: 0850 HRS MDT
 TIME: 0850 HRS MDT

INDEX AT DATA
 2740050200
 JALLEN

GEOMETRIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

TABLE 12 (continued)

DEPTH METER	TEMPERATURE DEGREES CELSIUS	WIND METER	WIND DIRECTION	WIND SPEED	WIND GUSTS	WIND DIRECTION	WIND SPEED	WIND GUSTS	INDEX OF REFRACTION
0.00000	08.99	-0.7	-30.9	10.3	640.4	030.0	94.9	24.6	1.000145
0.00000	08.99	-7.0	-33.5	10.0	630.0	034.0	00.1	26.9	1.000142
0.00000	07.1	-9.1	-30.2	10.0	621.0	033.2	73.1	30.1	1.000140
0.00000	06.1	-10.0	-35.1	10.7	611.4	032.0	73.0	32.4	1.000138
0.00000	05.0	-10.7	-34.3	10.0	601.1	031.2	70.3	33.7	1.000135
0.00000	04.3	-11.0	-37.3	10.0	591.9	029.7	72.4	32.3	1.000133
0.00000	03.1	-13.1	-35.2	10.0	582.0	020.3	77.0	30.7	1.000131
0.00000	02.5	-14.3	-30.2	10.0	573.9	020.8	04.0	29.1	1.000129
0.00000	01.0	-15.5	-00.1	10.0	565.2	023.3	67.5	28.6	1.000127
0.00000	00.7	-10.3	-41.1	10.0	550.0	023.9	90.0	28.2	1.000125
0.00000	00.6	-10.0	-42.0	10.0	543.1	022.4	94.6	27.4	1.000123
0.00000	00.5	-13.3	-40.7	10.5	539.9	020.7	93.5	26.2	1.000121
0.00000	00.5	-20.7	-43.3	11.0	531.0	019.1	101.4	23.9	1.000119
0.00000	00.6	-21.4	-43.3	11.0	522.5	019.2	93.7	20.8	1.000117
0.00000	00.6	-22.1	-40.5	11.0	513.3	017.3	90.0	17.4	1.000115
0.00000	00.4	-22.0	-45.0	11.0	504.2	010.4	70.2	15.5	1.000113
0.00000	00.4	-23.0	-45.9	11.0	495.9	013.1	03.2	14.8	1.000111
0.00000	00.3	-25.0	-45.3	11.0	487.0	013.7	59.0	13.8	1.000109
0.00000	00.3	-26.1	-47.7	11.0	479.9	012.3	43.5	12.9	1.000107
0.00000	00.3	-26.3	-48.6	11.0	472.2	010.9	32.9	10.6	1.000106
0.00000	00.3	-26.1	-53.0	11.0	463.9	009.0	9.2	9.5	1.000104
0.00000	00.3	-26.3	-53.0	11.0	455.7	008.8	30.9	11.4	1.000102
0.00000	00.3	-26.3	-53.0	11.0	447.6	007.7	31.1	14.8	1.000100
0.00000	00.3	-26.3	-53.0	11.0	439.7	006.7	30.1	18.8	1.000098
0.00000	00.3	-26.3	-53.0	11.0	431.9	005.7	29.9	22.9	1.000096
0.00000	00.3	-26.3	-53.0	11.0	424.5	004.3	29.9	26.6	1.000095
0.00000	00.3	-26.3	-53.0	11.0	417.5	002.9	30.1	29.3	1.000093
0.00000	00.3	-26.3	-53.0	11.0	410.1	001.5	30.9	31.5	1.000091
0.00000	00.3	-26.3	-53.0	11.0	403.1	000.1	30.4	33.4	1.000090
0.00000	00.3	-26.3	-53.0	11.0	396.5	000.0	30.9	35.2	1.000088
0.00000	00.3	-26.3	-53.0	11.0	390.5	000.0	29.7	36.0	1.000087
0.00000	00.3	-26.3	-53.0	11.0	384.9	000.0	29.3	38.6	1.000085

... IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
 0850 HRS MDT
 OBSERVATION NO. 207

UPPER AIR DATA
 270030Z07
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT LEG
 106.49511 LONG LEG

TABLE 12 (continued)

GEOMETRIC ALTITUDE FEET	TEMPERATURE DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	WIND DIRECTION DEGREES TRUE	WIND SPEED KNOTS	WIND SPEED KNOTS	INDEX OF REFRACTION
3600.0	-40.5		290.1	39.0	39.0	1.000064
3650.0	-41.5		294.9	39.4	39.4	1.000082
3700.0	-42.9		293.7	39.9	39.9	1.000061
3750.0	-44.2		293.3	40.3	40.3	1.000050
3800.0	-45.5		293.3	40.2	40.2	1.000078
3850.0	-46.8		297.6	39.9	39.9	1.000077
3900.0	-48.2		300.7	39.4	39.4	1.000076
3950.0	-49.5		301.9	38.5	38.5	1.000074
4000.0	-50.8		300.8	37.0	37.0	1.000073
4050.0	-52.1		293.2	36.0	36.0	1.000072
4100.0	-53.5		297.1	35.6	35.6	1.000071
4150.0	-54.5		297.5	35.4	35.4	1.000069
4200.0	-55.6		300.8	35.3	35.3	1.000068
4250.0	-56.7		303.5	34.9	34.9	1.000067
4300.0	-57.7		303.7	34.3	34.3	1.000065
4350.0	-58.3		303.5	34.0	34.0	1.000064
4400.0	-59.9		303.1	34.2	34.2	1.000063
4450.0	-60.7		304.2	34.4	34.4	1.000062
4500.0	-62.0		303.8	34.4	34.4	1.000061
4550.0	-63.0		303.8	34.3	34.3	1.000059
4600.0	-63.8		303.7	33.9	33.9	1.000058
4650.0	-64.7		303.8	33.5	33.5	1.000057
4700.0	-65.6		303.8	33.4	33.4	1.000056
4750.0	-66.3		302.4	33.2	33.2	1.000055
4800.0	-67.3		301.4	32.8	32.8	1.000054
4850.0	-68.5		304.8	32.4	32.4	1.000053
4900.0	-69.4		307.6	31.1	31.1	1.000051
4950.0	-70.2		310.8	29.9	29.9	1.000050
5000.0	-70.5		312.5	28.3	28.3	1.000049
5050.0	-71.7		313.8	26.5	26.5	1.000048
5100.0	-72.1		314.8	24.2	24.2	1.000047
5150.0	-72.9		319.8	21.3	21.3	1.000046

GEODETIC COORDINATES
 53.10712 LAT DEG
 106.49511 LONG DEG

WORLD MAP DATA
 2740930257
 JALLEN

WORLD MAP DATA
 2740930257
 0850 HRS MDT

TABLE 12 (continued)

WAVELENGTH MICRONS	WAVELENGTH MILLIMETERS	RELATIVE PERCENT		RELATIVE PERCENT	DENSITY G/MCUBIC METER	SPEED OF LIGHT KILOMETERS PER SECOND	DIRECTION DEGREES (TH)	WAVE DATA		INDEX OF REFRACTION
		WAVELENGTH MICRONS	WAVELENGTH MILLIMETERS					SPEED KILOMETERS PER SECOND	WAVELENGTH MILLIMETERS	
0.400000	0.000400	110.0	-72.7	100.0	291.4	551.0	514.4	18.3	1.000045	
0.410000	0.000410	113.0	-73.0	100.0	291.2	551.2	514.0	15.1	1.000044	
0.420000	0.000420	116.1	-73.3	101.9	290.7	550.7	517.5	12.6	1.000043	
0.430000	0.000430	119.3	-73.6	137.2	290.4	550.4	530.5	12.1	1.000042	
0.440000	0.000440	122.5	-72.7	131.7	291.0	551.0	542.5	11.9	1.000040	
0.450000	0.000450	125.8	-71.8	176.2	292.9	552.9	550.4	11.4	1.000039	
0.460000	0.000460	129.3	-71.1	171.2	293.8	553.8	555.0	10.9	1.000038	
0.470000	0.000470	132.9	-70.0	160.0	293.9	553.9	559.0	8.8	1.000037	
0.480000	0.000480	136.6	-70.0	162.5	294.1	554.1	7.1	6.8	1.000036	
0.490000	0.000490	140.5	-70.3	153.4	294.2	554.2	10.0	6.4	1.000035	
0.500000	0.000500	144.7	-70.7	154.3	294.3	554.3	27.2	6.3	1.000034	
0.510000	0.000510	149.0	-70.6	150.5	294.4	554.4	55.2	6.7	1.000033	
0.520000	0.000520	153.5	-71.5	146.5	294.6	554.6	41.5	7.1	1.000033	
0.530000	0.000530	158.1	-70.4	142.7	294.7	554.7	40.1	7.6	1.000032	
0.540000	0.000540	162.9	-70.3	139.1	294.8	554.8	49.5	8.1	1.000031	
0.550000	0.000550	167.9	-70.2	135.5	294.9	554.9	52.0	8.6	1.000030	
0.560000	0.000560	173.0	-70.1	132.0	295.1	555.1	55.8	9.3	1.000029	
0.570000	0.000570	178.3	-70.1	128.0	295.2	555.2	55.0	10.0	1.000029	
0.580000	0.000580	183.8	-70.0	125.3	295.3	555.3	55.7	10.5	1.000028	
0.590000	0.000590	189.5	-69.9	122.1	295.5	555.5	52.5	10.9	1.000027	
0.600000	0.000600	195.4	-69.8	119.9	295.6	555.6	55.4	11.1	1.000026	
0.610000	0.000610	201.5	-69.7	119.7	295.8	555.8	55.0	11.3	1.000026	
0.620000	0.000620	207.8	-69.6	112.5	297.4	557.4	50.0	11.3	1.000025	
0.630000	0.000630	214.3	-69.5	109.4	298.5	558.5	59.5	11.2	1.000024	
0.640000	0.000640	221.0	-69.4	106.4	299.1	559.1	62.2	11.2	1.000024	
0.650000	0.000650	227.9	-69.3	103.5	299.9	559.9	64.0	11.0	1.000023	
0.660000	0.000660	235.0	-69.2	100.0	300.7	560.7	67.0	10.7	1.000022	
0.670000	0.000670	242.3	-69.1	97.9	301.6	561.6	63.6	10.6	1.000022	
0.680000	0.000680	250.0	-69.0	95.2	302.9	562.9	69.5	10.6	1.000021	
0.690000	0.000690	257.9	-68.9	92.0	303.2	563.2	64.8	10.7	1.000021	
0.700000	0.000700	266.1	-68.8	86.0	304.0	564.0	75.0	10.0	1.000020	
0.710000	0.000710	274.5	-68.7	87.0	304.8	564.8	81.0	10.5	1.000019	

STATION ALTITUDE 4001.00 FEET MSL
30 SEP 57
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0850 HRS MDT

UPPER AIR DATA
270030Z 7
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 12 (continued)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE ALL DEGREES CENTIGRADE	RELATIVITY PERCENT	DENSITY GM/CM ³	WIND DIRECTION DEGREES TRUE	WIND SPEED KNOTS	INDEX OF REFRACTION
6300.0	51.5	-62.3		85.2	63.5	10.7	1.000019
6500.0	50.5	-61.7		82.8	49.4	11.2	1.000018
6700.0	49.1	-61.2		80.6	103.9	11.8	1.000018
6900.0	47.9	-60.5		78.5	110.5	10.5	1.000017
7000.0	46.7	-60.1		76.4	126.0	9.5	1.000017
7050.0	45.6	-59.5		74.4	120.4	7.3	1.000017
7100.0	44.5	-59.0		72.4	119.2	4.2	1.000016
7150.0	43.5	-58.5		70.5	74.6	1.7	1.000016
7200.0	42.4	-57.9		68.7	39.4	4.7	1.000015
7250.0	41.4	-57.3		67.0	52.5	8.0	1.000015
7300.0	40.4	-57.6		65.4	37.1	10.7	1.000015
7350.0	39.5	-57.4		63.8	46.7	12.9	1.000014
7400.0	38.6	-57.3		62.2	50.6	15.4	1.000014
7450.0	37.7	-57.1		60.7	62.0	14.9	1.000014
7500.0	36.8	-57.0		59.2	67.5	14.0	1.000013
7550.0	35.9	-56.8		57.8	73.1	13.1	1.000013
7600.0	35.0	-56.7		56.4	77.6	11.6	1.000013
7650.0	34.2	-56.5		55.0	63.3	10.3	1.000012
7700.0	33.4	-56.4		53.7			1.000012
7750.0	32.6	-56.2		52.4			1.000012
7800.0	31.9	-56.1		51.1			1.000011
7850.0	31.1	-55.9		49.9			1.000011
7900.0	30.4	-55.3		48.7			1.000011

GEODETIC COORDINATES
33.16712 LAT LEG
106.49511 LON LEG

WATER BODY LEVELS
2740038207
JALLEN

WATER BODY LEVELS
0850 HRS MDT
2740038207

TABLE 13.

PRESSURE OF DEPTH		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
955.0	5124.	19.8	6.2	41.	87.3	1.9	
909.0	6315.	19.4	-3.6	20.	118.0	4.2	
755.0	8021.	15.1	-5.2	24.	133.0	4.9	
700.0	10220.	10.3	-6.5	30.	50.4	4.1	
650.0	12524.	5.3	-10.1	32.	64.0	14.0	
600.0	14650.	3.8	-23.2	12.	97.7	9.5	
550.0	16657.	1.2	-27.0	10.	113.3	19.9	
500.0	19450.	-5.5	-32.2	10.	103.7	23.4	
450.0	22130.	-11.1	-36.0	10.	70.9	33.3	
400.0	25057.	-14.2	-42.2	10.	95.5	27.3	
350.0	28225.	-20.6	-46.5	11.	58.4	14.2	
300.0	31912.	-31.4			299.9	22.6	
250.0	36063.	-40.6			295.0	39.1	
200.0	40316.	-53.5			297.1	35.6	
175.0	43597.	-59.4			305.0	34.1	
150.0	46815.	-65.5			302.0	33.4	
125.0	50394.	-71.8			313.9	20.5	
100.0	54035.	-71.1			350.2	11.1	
80.0	59036.	-70.3			50.5	0.2	
70.0	61643.	-69.8			52.9	11.1	
60.0	64635.	-66.0			60.4	10.8	
50.0	68351.	-61.6			101.3	11.3	
40.0	72420.	-57.5			42.1	11.5	
30.0	76924.	-55.7					

** AT LEAST ONE ADDED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.